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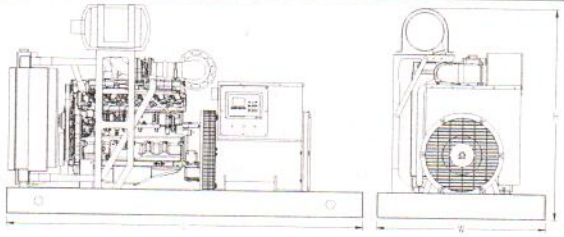
150kWT3 Diesel Gen-Set

KATOLIGHT CORPORATION

ENGINE TECHNICAL DATA	150 kW	
Model:	6068HF285	
Type:	4-Cycle	
Aspiration:	Turbocharged - Air to Air	
Cylinder Arrangement:	6-Inline	
Displacement : cu. in. (lit)	415 (6.8)	
Bore x Stroke: in. (cm)	4.19 (10.6) x 5.00 (12.7)	
Compression Ratio:	19.0:1	
Rated RPM:	1800	
BMEP: psi (kPA)	253.3 (1,746)	
Maximum Power @ Rated RPM:hp (kW)	237 (177)	
INSTALLATION DATA OPU = Open Power Unit EPU = Enclosed Power Unit		
Dimensions & Weights	**OPU**	**EPU**
Length: in. (cm)	110 (279)	110 (279)
Width: in. (cm)	52 (132)	52 (132)
Height : in. (cm)	64 (163)	77 (196)
Height with tank: in. (cm)	82.9 (211)	97 (246)
Weight (less tank): lb (kg)	3,098 (1,405)	3,718 (4,462)
Liquid Capacity		
Total Oil System: Gal (lit)	5.28 (20.0)	
Engine Jacket Water: Gal (lit)	3.25 (12.3)	
System Coolant Capacity: Gal (lit)	6.0 (22.7)	
Electrical System		
Electric Volts DC:	12V	
Cold Cranking Amps Under 0°F (-17.8°C):	800	
Exhaust System		
Gas Temp (Stack): °F (°C)	941 (505)	
Gas Volume @ Stack Temp: cfm (m^3/min)	1,201 (34.0)	
Maximum Allowable Back Pressure: in H_20 (kPa)	30 (7.5)	
Cooling System		
Ambient Capacity of Radiator: °F (°C)	122 (50)	
Water Pump Capacity: gpm (lit/min)	48 (180)	
Heat Rejection to Coolant: BTUM (kW)	5,324 (93.5)	
Heat Rejection to Air to Air: BTUM (kW)	1,821 (32)	
Air Requirements		
Aspirating: cfm (m^3/min)	480 (13.6)	
Air Flow Requirements for Rad. Cooled Unit: cfm (m^3/min)	9,216 (261)	
Fuel Consumption: Gal/Hr (Lit/Hr)		
At 100% of Power Rating:	11.8 (44.7)	
At 75% of Power Rating:	9.2 (34.8)	
At 50% of Power Rating:	6.7 (25.4)	
Sound Level Data at	Full Load	No Load
23 ft. (7m) Enclosed with 1.5" foam: (dBA)	C/F	C/F
23 ft. (7m) Enclosed, 1.5" foam & scoops: (dBA)	C/F	C/F
Derate:		
Altitude :	0.5% per 1,000 ft (305 m) above 5,000 ft (1,524 m) and 4% per 1,000 ft. (305 m) above 10,000 ft. (3,048 m)	
Temperature:	.5% per 10°F (5.5°C) above 77°F (25°C)	



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Diesel Engine Oil and Filter Service Intervals

The oil and filter service intervals in the table below should be used as guidelines because actual service intervals also depend on operation and maintenance practices. It is suggested that oil analysis be used prior to each oil change to be certain the proper oil and filter service interval is selected.

Oil and filter change intervals are based on oil pan capacity, type of oil and filter used, and sulfur content of the diesel fuel.

Refer to the following table for oil and filter service intervals.

Oil and Filter Service Intervals		
	Standard Oil Pan[a]	**Extended Drain Oil Pan**[b]
Fuel Sulfur Level	Less than 1000 ppm (0.10%)	
With Standard Oil	250 hours	250 hours
With Premium Oil	375 hours	500 hours
Fuel Sulfur Level	1000 to 5000 ppm (0.10 to 0.50%)	
With Standard Oil	150 hours	150 hours
With Premium Oil	250 hours	250 hours
Fuel Sulfur Level	5000 to 10,000 ppm (0.50 to 1.00%)	
With Standard Oil	100 hours	100 hours
With Premium Oil	150 hours	150 hours
[a]Oil Pans with Option Codes 1908 or 1909 (6-Cylinder Engines Only)		
[b]Oil Pans with Option Codes 1961 or 19AC (Larger Capacities) (6-Cylinder Engines Only)		

Fuel sulfur level will affect oil and filter service intervals. Higher fuel sulfur levels reduce oil service intervals as shown in the table.

- Use of diesel fuel with sulfur content less than 1000 ppm (0.10%) is strongly recommended.
- Use of diesel fuel with sulfur content greater than 5000 ppm (0.50%) is **NOT** recommended.
- **DO NOT** use diesel fuel with sulfur content greater than 10,000 ppm (1.00%).

Oil types (premium or standard) in table are as follows:

- "Premium Oils" include John Deere PLUS-50™, ACEA E6, or ACEA E7 oils, and assume the use of a specified John Deere oil filter.
- "Standard Oils" include John Deere TORQ-GARD SUPREME™, API CI-4 PLUS, API CI-4, ACEA E4, or ACEA E5 oils.

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TORQ-GARD SUPREME is a trademark of Deere & Company

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Lubrication and Maintenance Service Interval Chart—Generator (Standby) Applications

NOTE: Use service intervals listed below for generator (standby) applications. Match service items below to titles in Lubrication and Maintenance Sections for procedures.

Item	Lubrication and Maintenance Service Intervals			
	Every 2 Weeks	500 Hours or 12 Months	2000 Hours or 24 Months	As Required
Operate Engine at Rated Speed and 50%–70% Load a Minimum of 30 Minutes	•			
Check Engine Oil and Coolant Level	•			
Check Fuel Filter/Water Bowl	•			
Check Air Cleaner Dust Unloader Valve & Restriction Indicator Gauge [a]	•			
Visual Walk Around Inspection	•			
Service Fire Extinguisher		•		
Check Engine Mounts		•		
Service Battery		•		
Change Engine Oil And Replace Oil Filter [b, c]		•		
Check Crankcase Vent System		•		
Check Air Intake Hoses, Connections, & System		•		
Replace Fuel Filter Elements		•		
Check Automatic Belt Tensioner and Belt Wear		•		
Check Engine Electrical Ground Connection		•		
Check Cooling System		•		
Coolant Solution Analysis-Add SCAs as required		•		
Pressure Test Cooling System		•		
Check Engine Speeds		•		
Check Crankshaft Vibration Damper *(6.8 L Engines)* [d]			•	
Flush and Refill Cooling System [e]			•	
Test Thermostats			•	
Check and Adjust Engine Valve Clearance			•	
Test Glow Plugs			•	
Add Coolant				•
Replace Air Cleaner Elements				•

[a]Replace primary air cleaner element when restriction indicator shows a vacuum of 625 mm (25 in.) H2O. If not equipped with indicator, replace air cleaner elements at 500 hours or 12 months, whichever occurs first.

[b]During engine break-in, change the oil and filter for the first time after 100 hours of operation (maximum).

[c]Service intervals depend on sulfur content of the diesel fuel, oil pan capacity, and the oil and filter used. (See DIESEL ENGINE OIL AND FILTER SERVICE INTERVALS, in Fuels, Lubricants, and Coolant Section.)

[d]Replace crankshaft damper every 4500 hours or 60 months, whichever occurs first.

[e]If John Deere COOL-GARD is used, the flushing interval may be extended to 3000 hours or 36 months. If John Deere COOL-GARD is used and the coolant is tested annually AND additives are replenished as needed by adding a supplemental coolant additive, the flushing interval may be extended to 5000 hours or 60 months, whichever occurs first.

Continued on next page

Item	Lubrication and Maintenance Service Intervals			
	Every 2 Weeks	500 Hours or 12 Months	2000 Hours or 24 Months	As Required
Replace Fan and Alternator Belts				•
Check Fuses				•
Check Air Compressor (If Equipped)				•
Bleed Fuel System				•

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